SONY

CAMERA CONTROL UNIT

CCU-700
CCU-700P

UPGRADE INFORMATION

FOR MAINTENANCE MANUAL

Please add this UPGRADE INFORMATION with your own manual.

Applicable Manual (Manual Code)

1St Edition (3-186-235-01)
Rev.1 (3-186-235-02)
Rev.2 (3-186-235-03)

Contents

Additional information for the upgrade of CCU-700/700P.

1. Installation of BKP-7312
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CCU-700 (J,UC)
CCU-700P (EK) J,E
9-967-638-11

Sony Corporation
Broadcast Products Company

Printed in Japan
1995. 11 08

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Published by Broadcast Products Company

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理など行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠AVERTISSEMENT

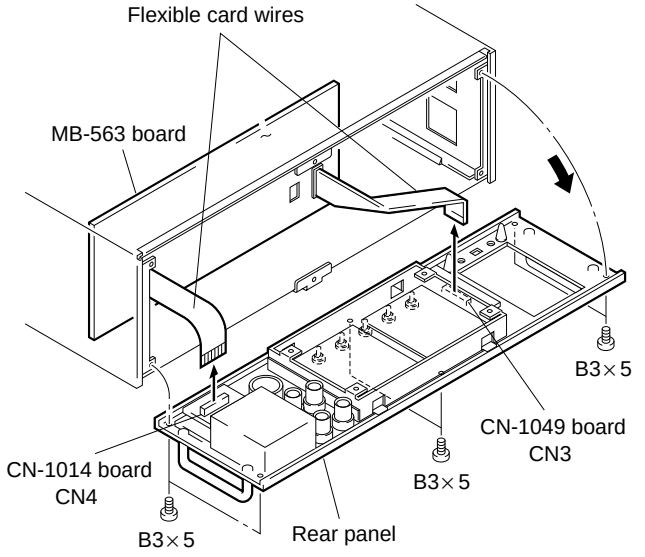
Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

1. Installation of BKP-7312

1. Set the S250-1 switch on the BKP-7312 to OFF.
2. Remove the six screws (B3×5) and then remove the rear panel.
3. Disconnect the connector CN4 on the CN-1014 board and the connector CN3 on the CN-1049 board.

   Note

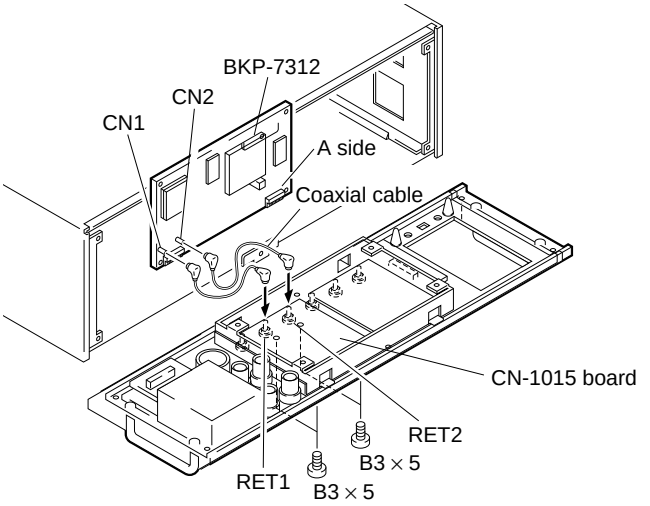
   When disconnecting the flexible card wires, refer to "2-1-3. Disconnecting/Connecting of Flexible Card Wire."



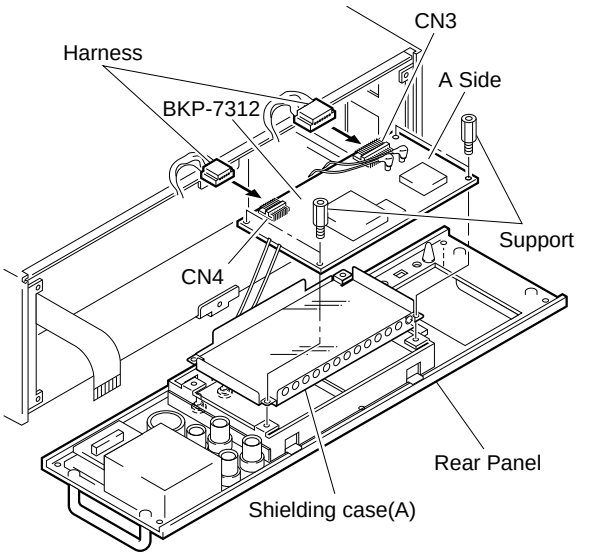
4. Connect the two coaxial cables.
   RET1/CN-1015 board — CN1/BKP-7312
   RET2/CN-1015 board — CN2/BKP-7312

   Note

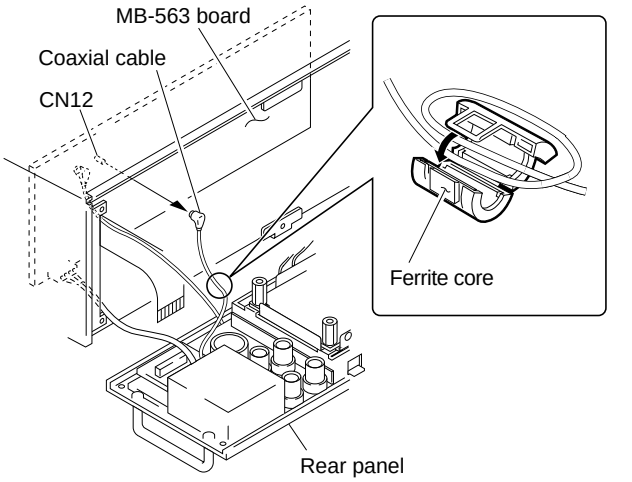
   Removing the CN-1015 board makes cable connections easier. The CN-1015 board is secured with four screws from the rear panel.
   When installing the board, apply locking compound to the four screws.



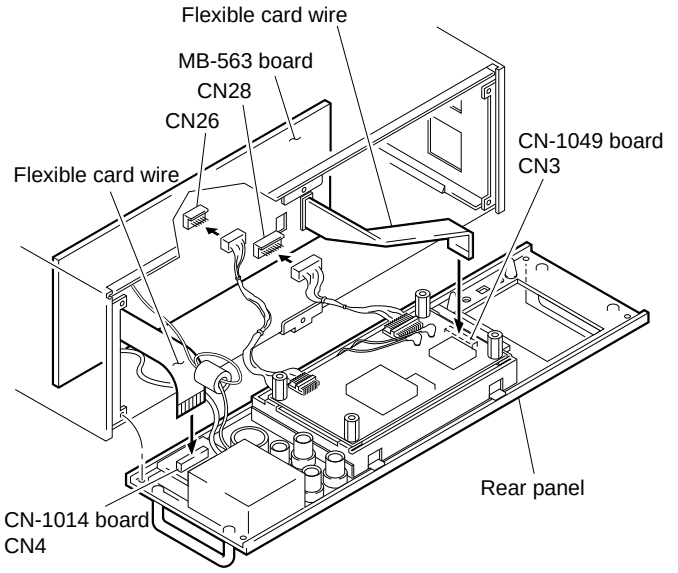
5. Connect the two harnesses (supplied with BKP-7312) to connectors CN3 and CN4 on the BKP-7312 respectively.
6. Install the Shielding case (A) assembly (supplied with BKP-7312) to the rear panel.
7. Fit the BKP-7312 with the A side face up to the rear panel using the four supports. Apply locking compound to the four supports.



8. Disconnect the connector CN12 on the MB-563 board. Attach the ferrite core to the coaxial cable as the figure. Connect the connector CN12 to the MB-563 board.



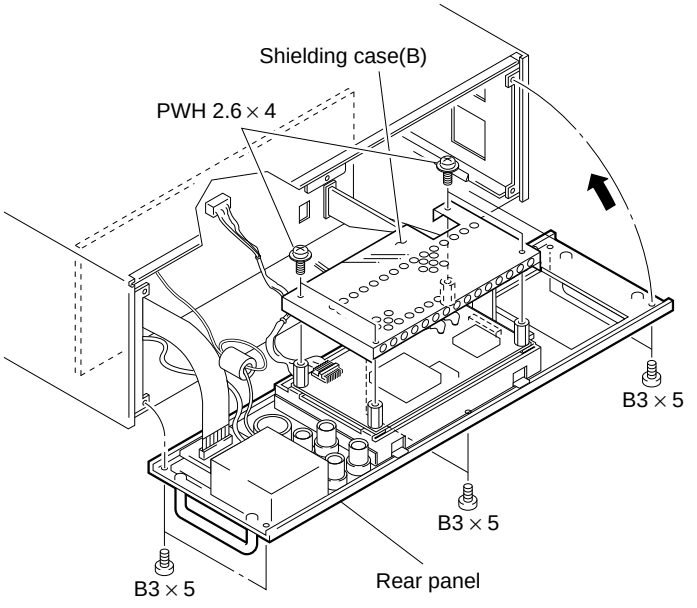
9. Connect the other ends of the harnesses to the connectors CN26 and CN28 on the MB-563 board respectively.
10. Connect the two flexible card wires to the connector CN4 on the CN-1014 board and the connector CN3 on the CN-1049 board.



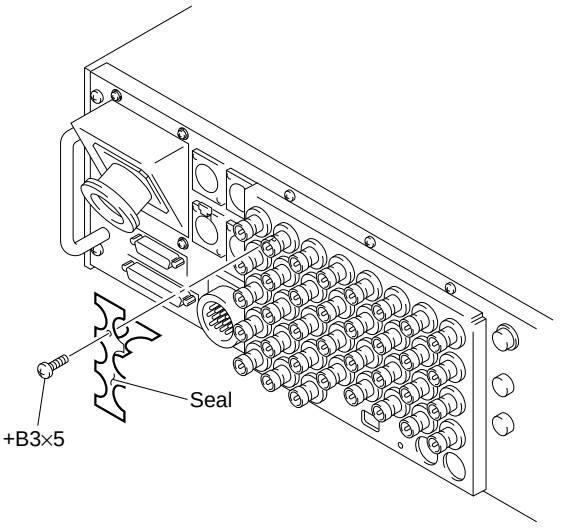
11. Install the Shielding case (B) assembly (supplied with BKP-7312) to the BKP-7312 with the four screws (+PWH2.6×4).
12. Install the rear panel with the six screws (+B3×5).

Note

When disconnecting the flexible card wires, refer to "2-1-3. Disconnecting/Connecting of Flexible Card Wire."



13. Remove a screw (+B3×5) shown in the figure. And then fit the accessory seal using the screw (+B3×5).



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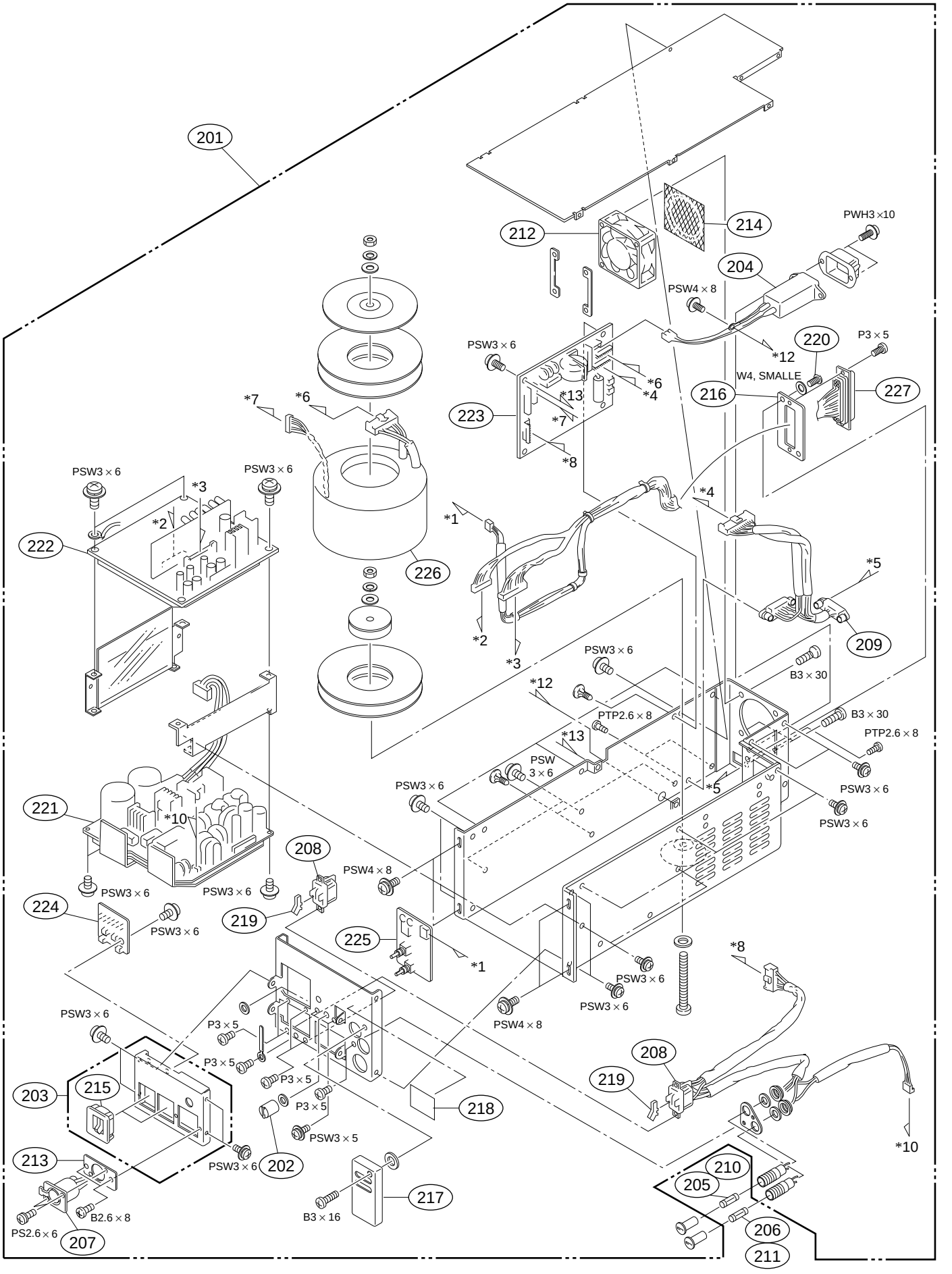
2. Exploded Views

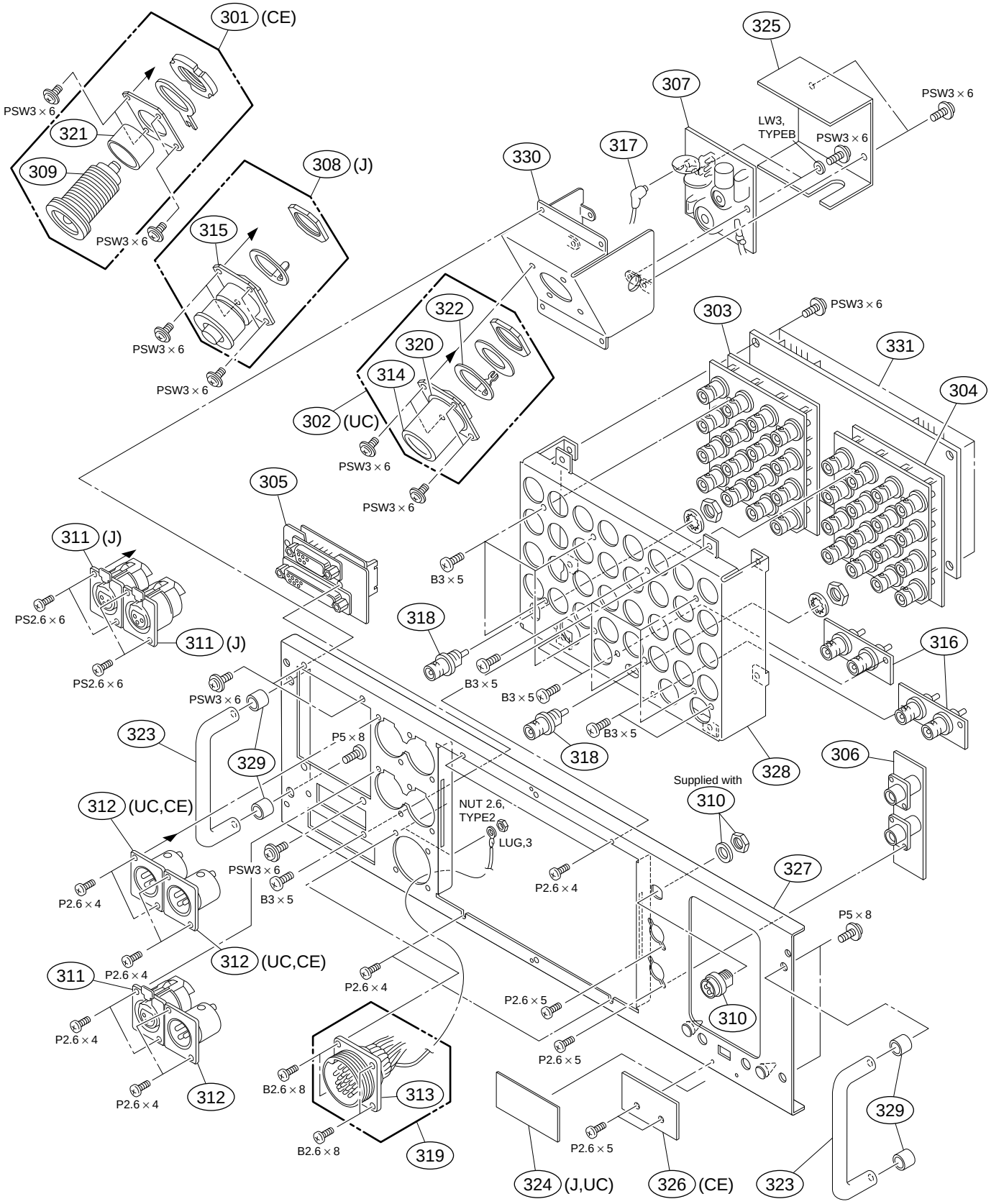
POWER ASSY



CCU-700(UC)
CCU-700P(EK)

No.		Part No.	SP	Description
201	⚠	A-8314-736-C	s	SWITCHING REGULATOR
202		X-3664-209-0	s	KNOB ASSY, GAIN
203		X-3678-155-1	o	PS PANEL ASSY
204	⚠	1-251-148-21	s	INLET, AC (3P) “AC IN”
205	⚠	1-532-745-11	s	FUSE, GLASS TUBE 3.15A 125V (FOR CCU-700A)
206	⚠	1-532-748-11	s	FUSE, GLASS TUBE 6.3A 125V (FOR CCU-700A)
207		1-563-159-11	s	CONNECTOR, 5P FEMALE “INTERCOM”
208	⚠	1-570-117-41	s	SWITCH, ROCKER “MAIN” “CAMERA”
209	⚠	1-570-173-11	s	SELECTOR, POWER VOLTAGE
210	⚠	1-576-230-11	s	FUSE(H.B.C) T3.15AH 250V (FOR CCU-700AP)
211	⚠	1-576-231-41	s	FUSE(H.B.C) T4.0AH 250V (FOR CCU-700AP)
212		1-698-106-11	s	MOTOR, DC BLUSHLESS FAN
213		2-128-245-01	o	PLATE (XLR), PHONE
214		3-675-898-00	o	PLATE, VENTILATION
215		3-681-054-01	o	POWER SW GUARD
216		3-681-055-01	o	50PIN PLATE
217		3-681-721-01	o	BLIND PLATE,FUSE
218		3-681-730-03	o	FUSE LABEL
219		3-688-814-01	s	CAP, SWITCH
220		3-694-825-11	s	SCREW (M3) (STEP),SPECIAL HEAD
221		9-907-791-01	o	MOUNTED CIRCUIT BOARD, PS-356
222		9-907-792-01	o	MOUNTED CIRCUIT BOARD, PS-357
223		9-907-793-01	o	MOUNTED CIRCUIT BOARD, CN-1013
224		9-907-794-01	o	MOUNTED CIRCUIT BOARD, LE-133
225		9-907-795-01	o	MOUNTED CIRCUIT BOARD, AU-209
226	⚠	9-907-796-01	o	AC TRANSFORMER
227		9-907-797-01	o	HARNESS, D-SUB

REAR PANEL BLOCK



No.	Part No.	SP	Description
301	A-8265-850-A	o	TRIAX ASSY (F) (FOR CCU-700AP)
302	A-8314-019-A	o	TRIAX ASSY (K) (FOR CCU-700A:UC)
303	A-8314-026-A	o	MOUNTED CIRCUIT BOARD, CN-1015
304	A-8314-027-A	o	MOUNTED CIRCUIT BOARD, CN-1036
305	A-8314-028-A	o	MOUNTED CIRCUIT BOARD, CN-1014
306	A-8314-029-A	o	MOUNTED CIRCUIT BOARD, CN-1049
307	A-8314-030-A	o	MOUNTED CIRCUIT BOARD, IO-103
308	A-8314-037-A	o	TRIAX ASSY (T) (FOR CCU-700A:J)
309	1-560-744-11	s	CONNECTOR, COAXIAL "CAMERA" (FOR CCU-700AP)
310	1-561-376-00	s	CONNECTOR, 4P FEMALE "WF MODE"
311	1-563-029-21	s	CONNECTOR, 3P FEMALE "RTS" "MIC OUTPUT" (FOR CCU-700A:J)
312	1-563-030-21	s	CONNECTOR, 3P MALE "RTS" "MIC OUTPUT" (FOR CCU-700A:UC/CCU-700AP)
313	1-564-971-11	o	CONNECTOR, MULTI 19P MALE "INTERCOM/TALLY/PGM"
314	1-565-796-11	s	CONNECTOR, DOUBLE COAXIAL "CAMERA" (FOR CCU-700A:UC)
315	1-565-798-12	s	CONNECTOR, DOUBLE COAXIAL "CAMERA" (FOR CCU-700A:J)
316	1-750-881-11	s	CONVERTER, COAXIAL CONNECTOR, BNC "SERIAL INPUT RET1/RET2" "SERIAL OUTPUT 2/3"
317	1-765-696-11	s	CABLE ASSEMBLY, COAXIAL
318	1-774-157-11	s	CONVERTER, COAXIAL CONNECTOR, BNC "COAX" "SERIAL OUTPUT 1"
319	1-953-610-11	o	HARNESS (SK-19)
320	2-132-244-01	o	SPACER (UC)
321	2-361-587-00	o	SLEEVE (CE)
322	2-365-236-00	o	LUG (K), GROUND (FOR CCU-700A:UC)
323	2-378-801-01	s	HANDLE
324	3-681-035-01	o	BLIND SHEET (FOR CCU-700A)
325	3-681-048-01	o	TRIAX BOX LID
326	3-683-020-01	o	COVER, INDICATION PLATE (FOR CCU-700AP)
327	3-693-962-02	o	REAR PANEL
328	3-693-963-02	o	BRACKET,BNC
329	3-693-965-01	o	SPACER,HANDLE
330	3-741-713-01	o	BOX, TRIAX
331	SDI INPUT BOARD BKP-7312 (OPTION)		

3. Electrical Parts List

MB-563 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-024-A	o	MOUNTED CIRCUIT BOARD, MB-563
4pcs	3-531-576-11	s	RIVET
2pcs	3-693-964-01	o	SHEET,INSULATING
2pcs	3-693-966-01	o	GUARD,PIN
CN1	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN2	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN3	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN4	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN5	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN6	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN7	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN8	1-764-692-11	o	CONNECTOR, BOARD TO BOARD 96P
CN9	1-566-444-11	o	CONNECTOR, D-SUB 50P
CN10	1-564-687-11	o	PIN, CONNECTOR 3P
CN11	1-506-636-11	o	CONNECTOR, PS 14P
CN12	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR, BNC
CN13	1-573-727-11	s	CONNECTOR, FPC 25P
CN15	1-750-880-11	s	RECEPTACLE, COAXIAL CONNECTOR, BNC
CN16	1-506-639-11	o	CONNECTOR, PS 20P
CN17	1-506-471-11	o	PIN, CONNECTOR 6P
CN18	1-506-634-11	o	CONNECTOR, PS 10P
CN19	1-573-727-11	s	CONNECTOR, FPC 25P
CN20	1-506-469-11	s	CONNECTOR, 4P, MALE
CN21	1-506-632-11	o	CONNECTOR, PS 6P
CN22	1-506-471-11	o	PIN, CONNECTOR 6P
CN23	1-506-644-11	o	CONNECTOR, PS 30P
CN24	1-506-470-11	s	PIN, CONNECTOR 5P
CN25	1-506-633-11	o	CONNECTOR, PS 8P
CN26	1-506-472-11	s	CONNECTOR, 7P, MALE
CN27	1-506-468-11	o	CONNECTOR, 3P, MALE
CN28	1-506-477-11	o	CONNECTOR, 12P, MALE

POWER BLOCK FRAME

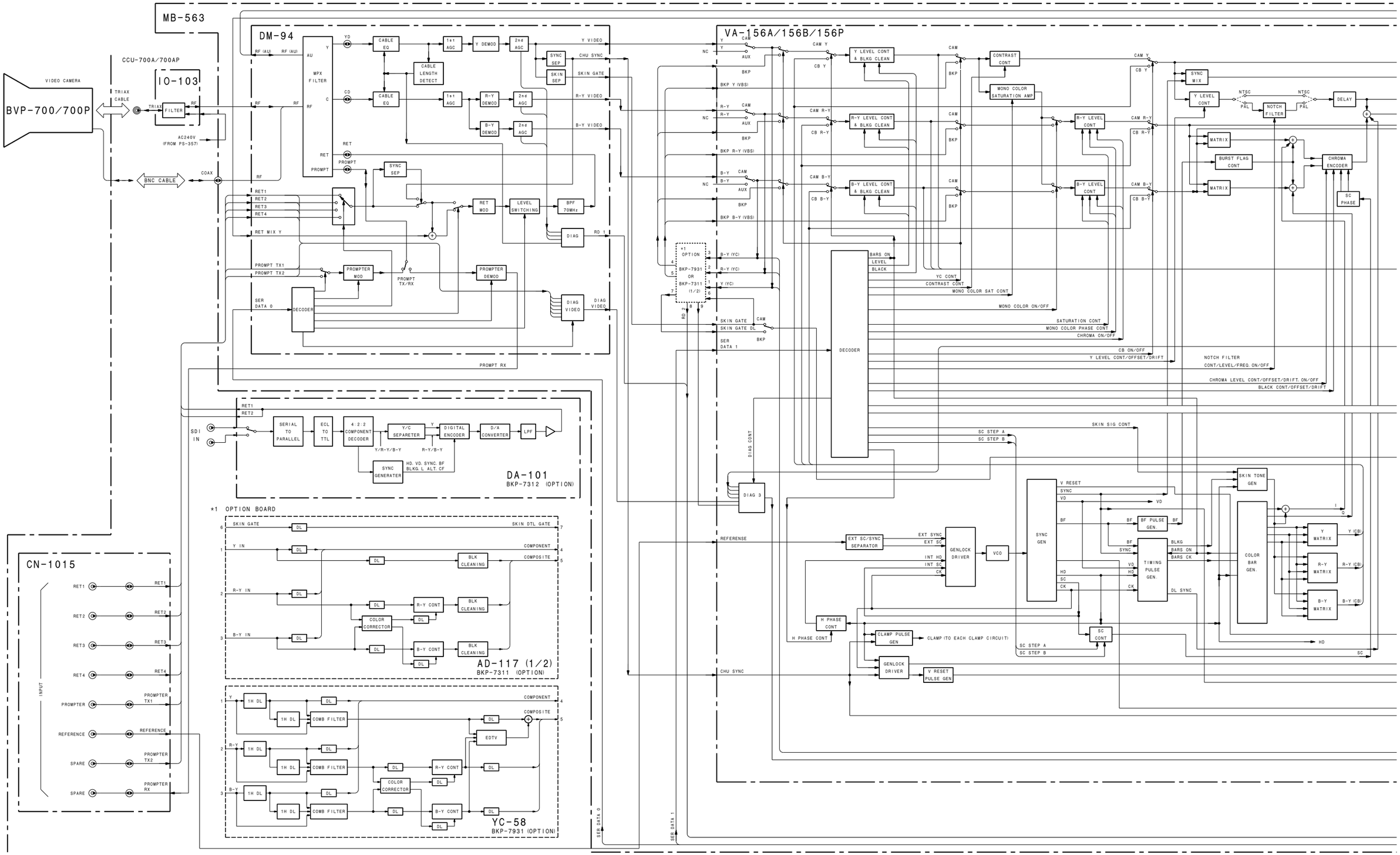
Ref. No. or Q'ty	Part No.	SP	Description
1pcs	⚠ A-8314-736-C	s	POWER UNIT(RP)
B1	1-698-106-11	s	MOTOR, DC BLUSHLESS FAN "DC FAN"
F1	⚠ 1-532-745-11	s	FUSE, GLASS TUBE 3.15A 125V (FOR CCU-700A)
F1	⚠ 1-576-230-11	s	FUSE (H.B.C.) T3.15AH 250V (FOR CCU-700AP)
F2	⚠ 1-532-748-11	s	FUSE, GLASS TUBE 6.3A 125V (FOR CCU-700A)
F2	⚠ 1-576-231-41	s	FUSE (H.B.C.) T4.0AH 250V (FOR CCU-700AP)
J1	⚠ 1-251-148-21	s	INLET, AC (3P) "AC IN"
J21	1-563-159-11	s	CONNECTOR, 5P, FEMALE "INCOM/PGM"
S1	⚠ 1-570-117-41	s	SWITCH, SEESAW (AC POWER)
S2	⚠ 1-570-117-41	s	SWITCH, SEESAW (AC POWER)
S3	⚠ 1-570-173-11	s	SELECTOR, POWER VOLTAGE

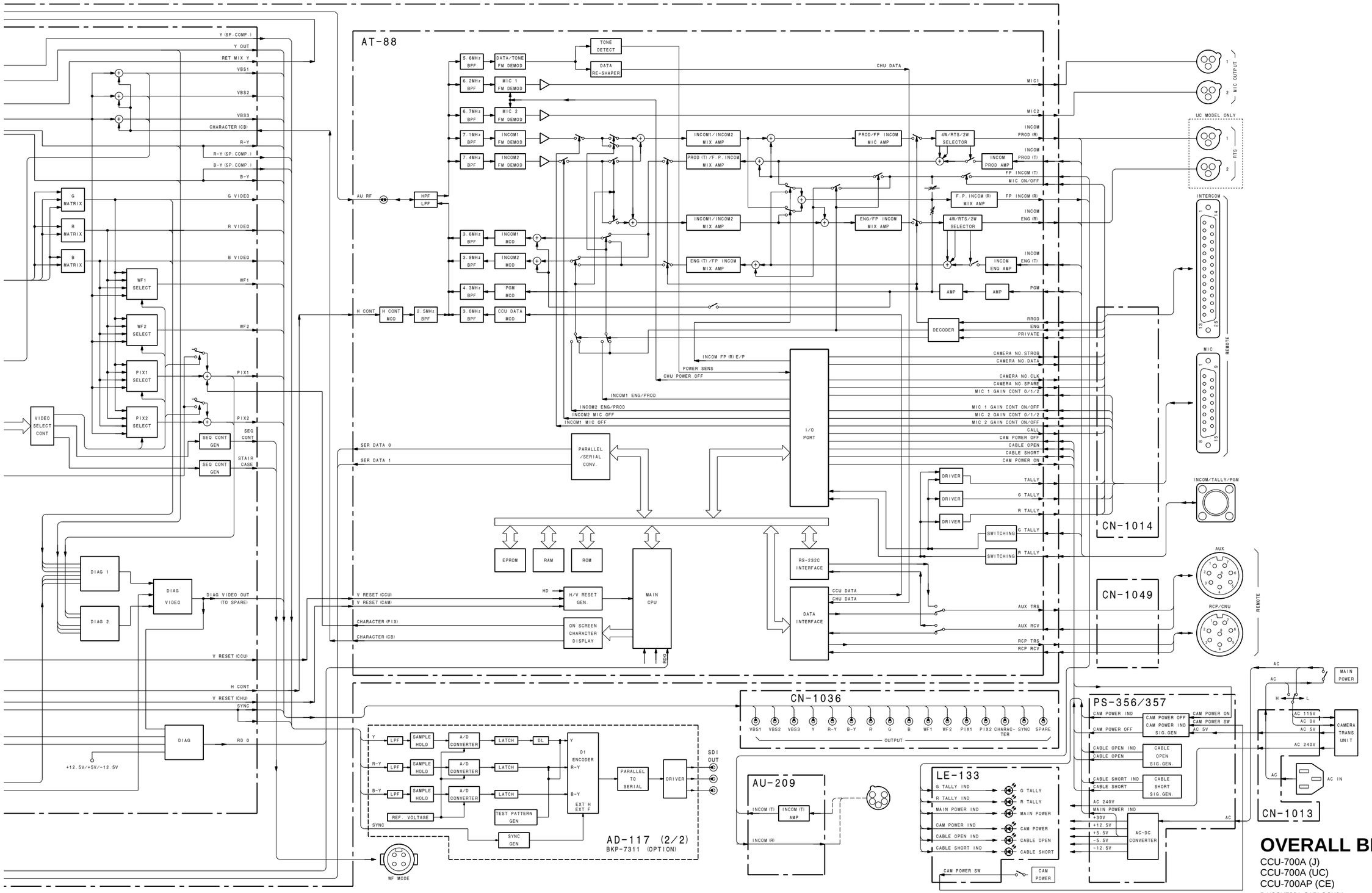
[BKP-7312]

Ref. No. or Q'ty	Part No.	SP	Description
1pc	X-3678-532-1	o	ASSY, CASE (A) SHIELD
1pc	X-3678-533-1	o	ASSY, CASE (B) SHIELD
1pc	1-500-082-11	s	CLAMP, SLEEVE FERRIE
2pcs	1-765-696-11	s	CALBE ASSEMBLY, COAXIAL
1pc	1-955-432-11	o	HARNESS, SUB (DA1)
1pc	1-955-433-11	o	HARNESS, SUB (DA2)
4pcs	3-675-725-01	o	SPACER, PC BOARD
1pc	3-694-267-01	o	LABEL, RET
4pcs	7-682-902-01	s	SCREW +PWH 2.6X4
4pcs	7-682-903-01	s	SCREW +PWH 3X5

4. Block Diagram

OVERALL BLOCK





OVERALL BLOCK

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)
B-¥CCU700A-OABLOCK/M

5. Schematic Diagrams

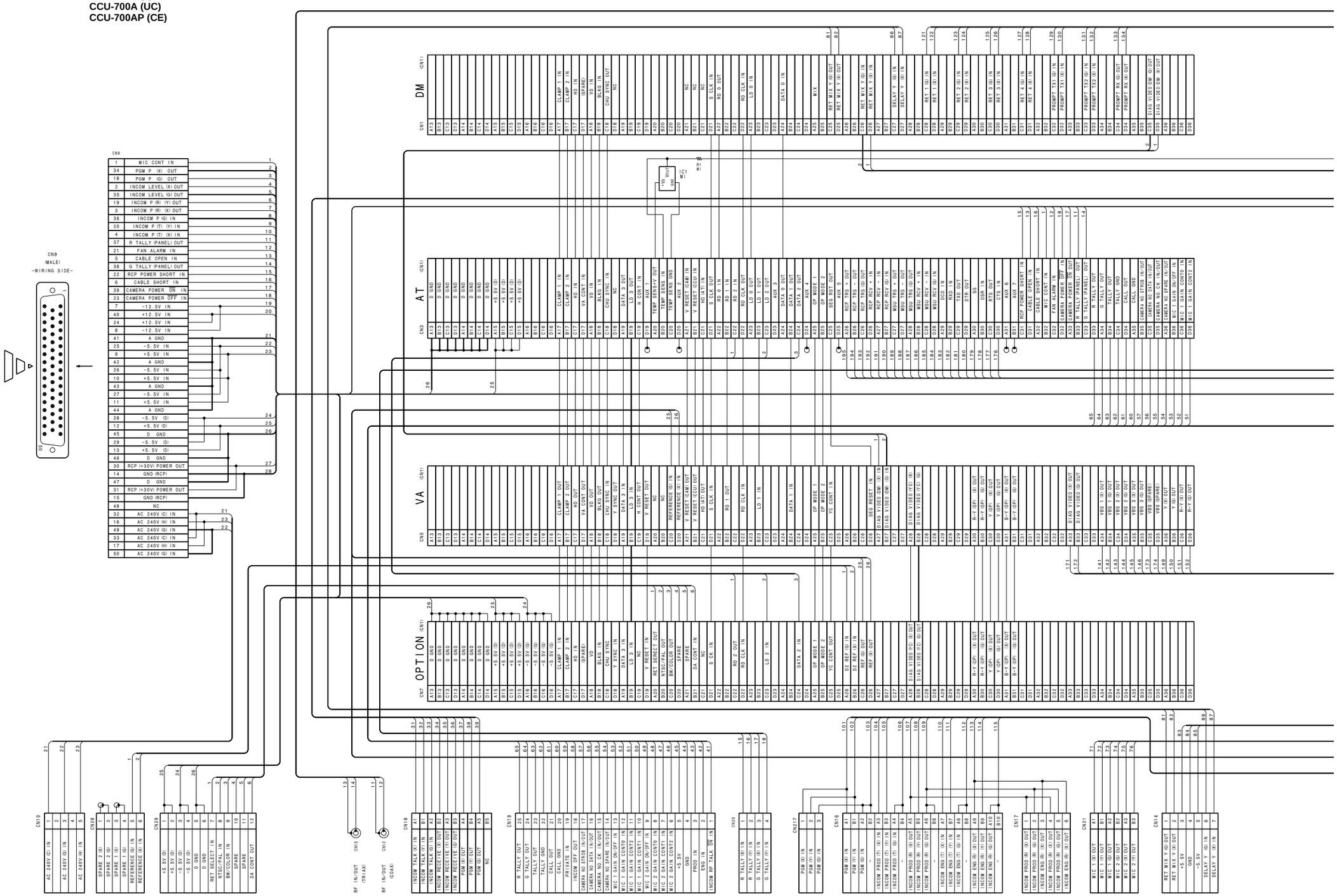
MB-563 BOARD

MB-563 (1-653-239-12)

CN1	C1
CN2	E1
CN3	C2
CN4	E2
CN5	C3
CN6	E3
CN7	C4
CN8	E4
CN9	A3
CN10	*F4
CN11	*D1
CN12	*E1
CN13	*A3
CN15	*E1
CN16	*E2
CN17	*D2
CN18	*D1
CN19	*F3
CN20	*D2
CN21	*E1
CN22	*C3
CN23	*D3
CN24	*B2
CN25	*D2
CN26	*D2
CN27	*D2
CN28	*B3

*:B SIDE

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)



CCU-700(UC)
CCU-700P(EK)

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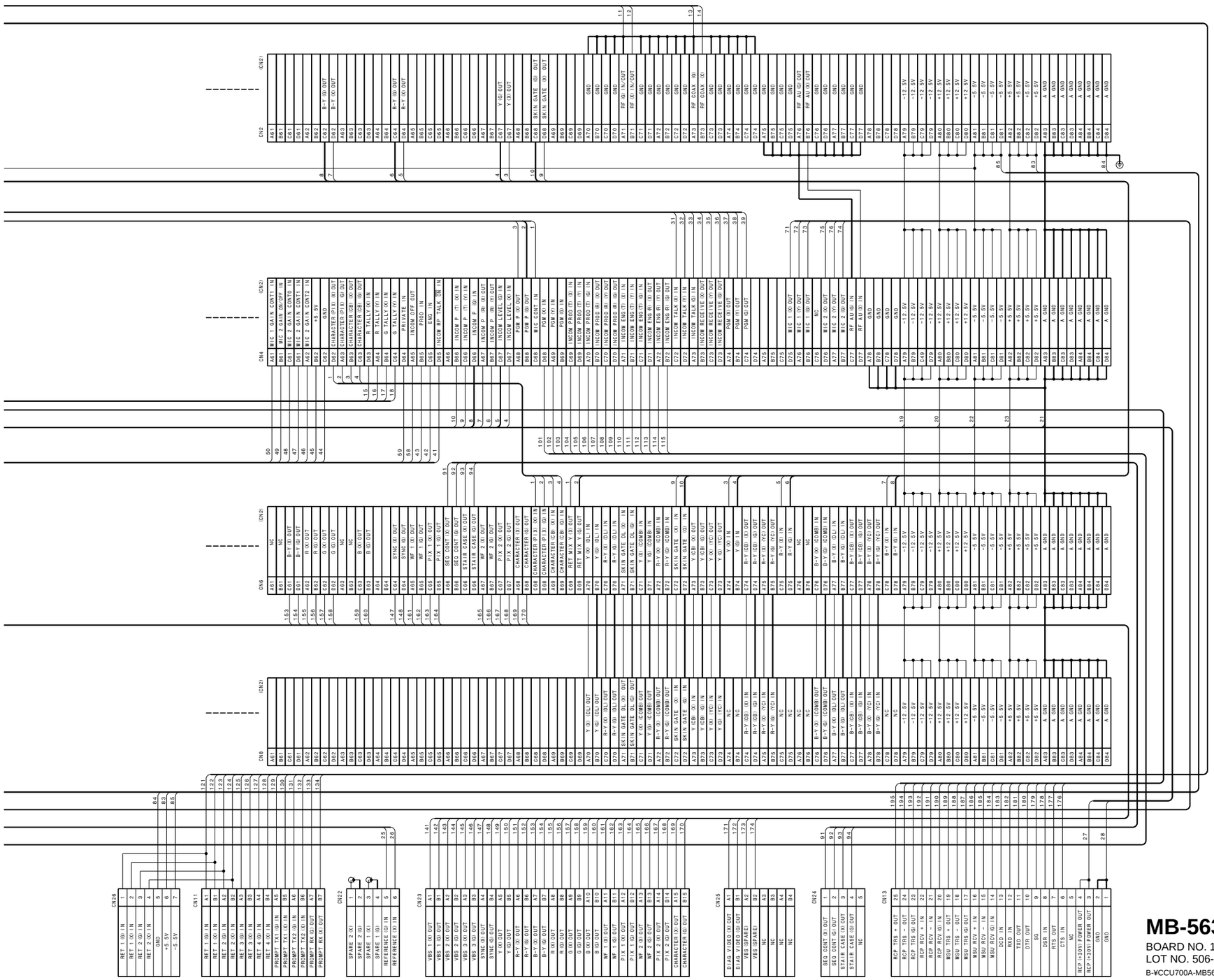


MB-563

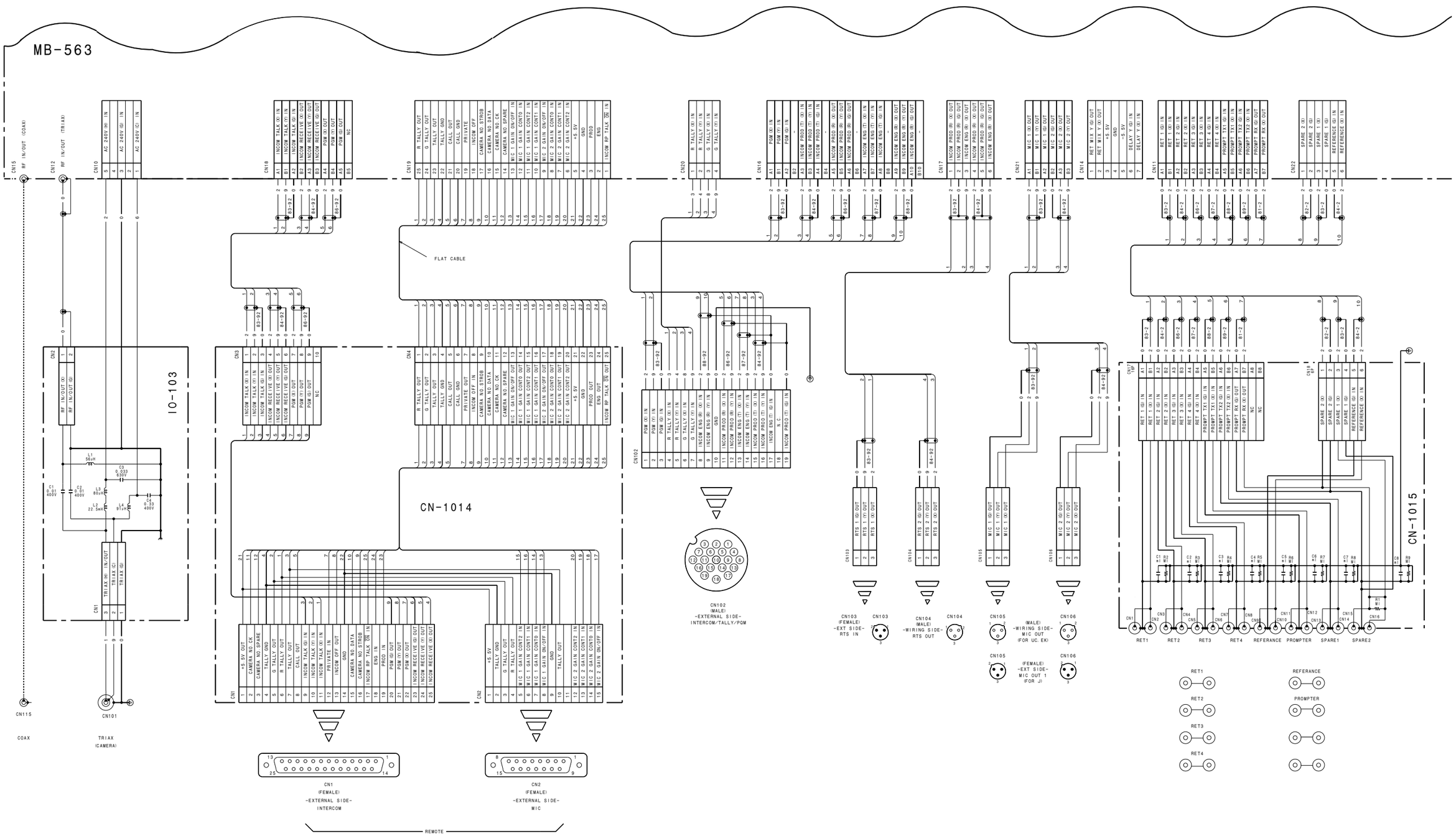
BOARD NO. 1-653-239-12
LOT NO. 506-

B-¥CCU700A-MB563/M

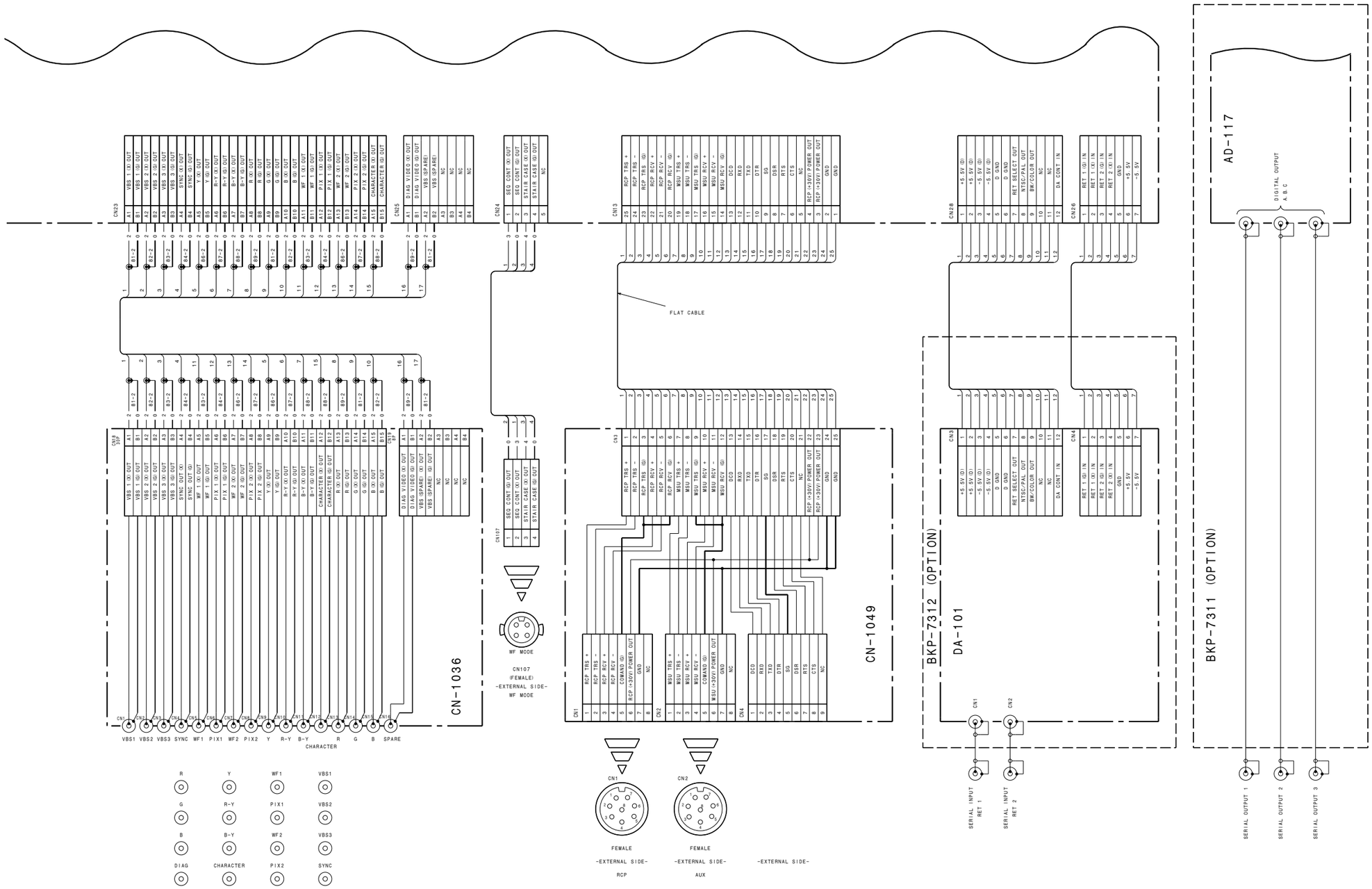
FRAME WIRING CN-1014, CN-1015, CN-1036, CN-1049, IO-103

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

FRAME WIRING



FRAME WIRING CN-1014, CN-1015, CN-1036, CN-1049, IO-103



FRAME WIRING

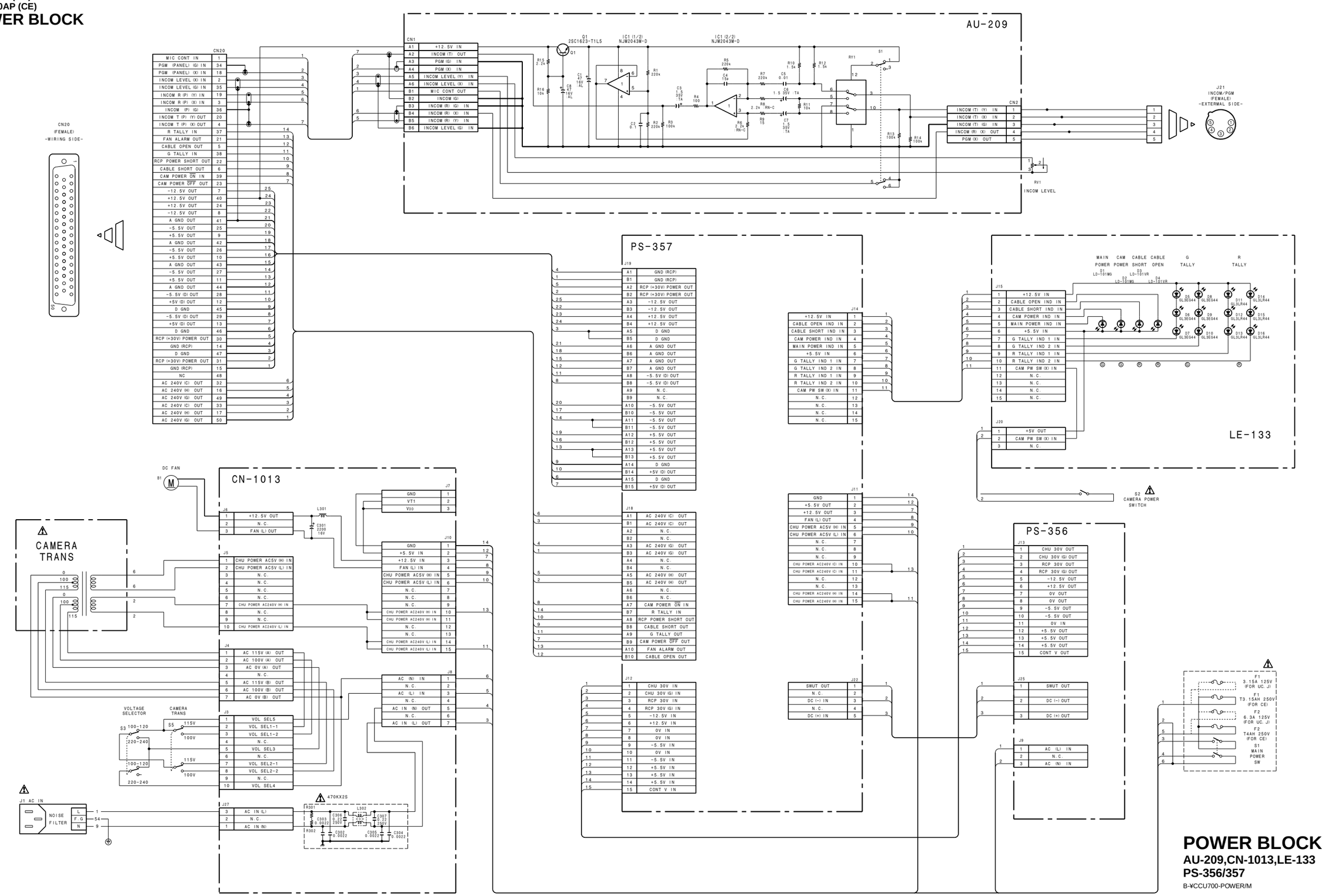
CN-1014/1015/1036/1049

IO-103

B-¥CCU700A-FRAME/M

CCU-700A (J)
CCU-700A (UC)
CCU-700AP (CE)

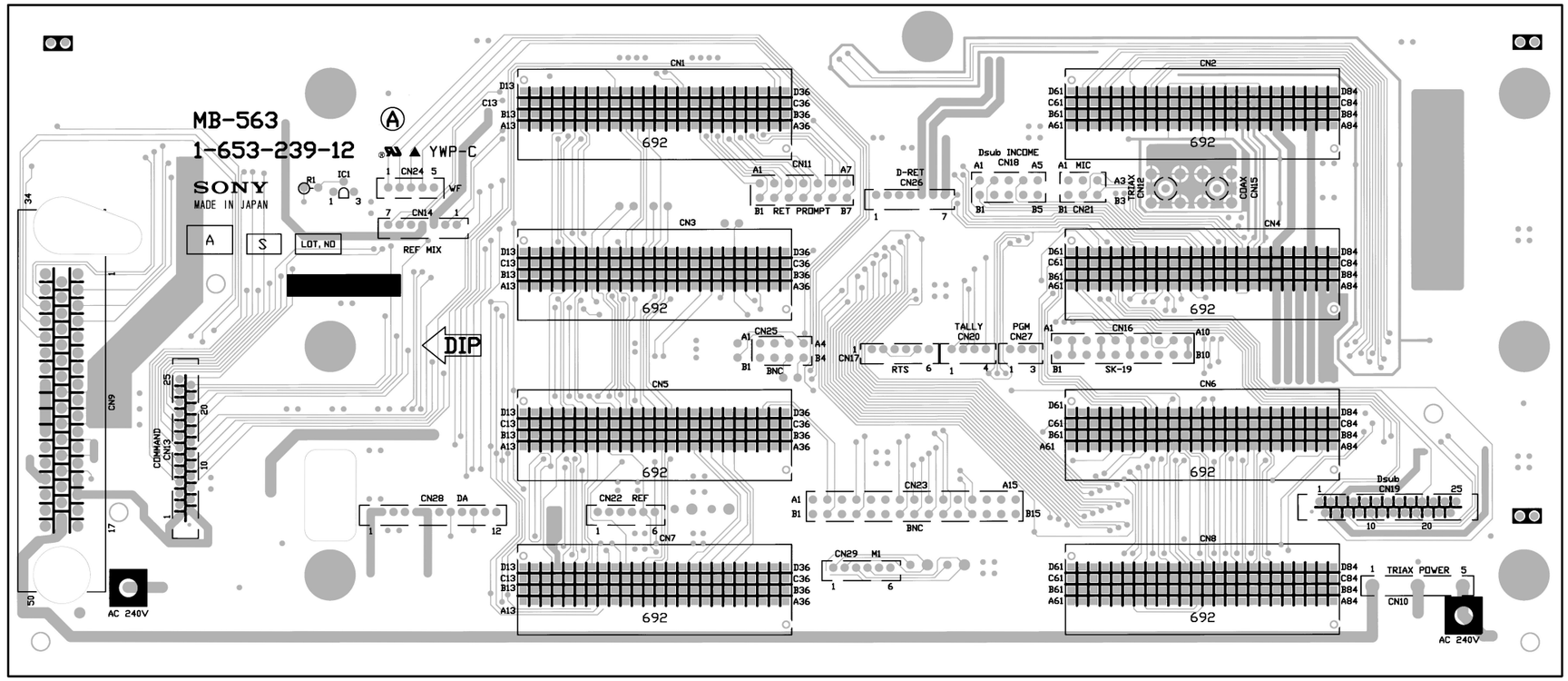
POWER BLOCK



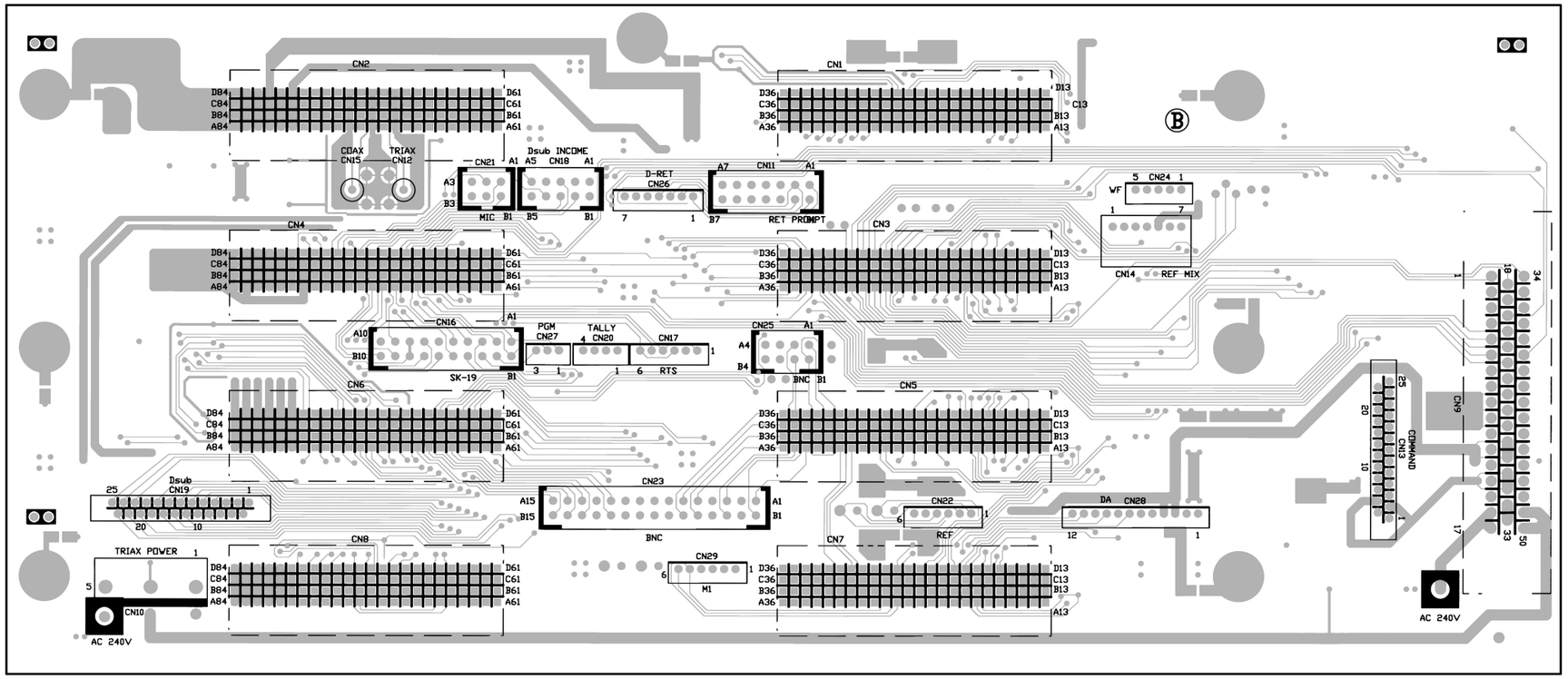
POWER BLOCK
AU-209,CN-1013,LE-133
PS-356/357
B-¥CCU700-POWER/M

6. Board Layout

MB-563 BOARD



MB-563 - A SIDE -
1-653-239-12



MB-563 - B SIDE -
1-653-239-12

CCU-700(UC)
CCU-700P(EK)